

The Oil Capital Air

Newsletter of the Northeastern Oklahoma Chapter of the American Society of Heating, Refrigerating and Air-Conditioning Engineers, Inc.

Volume XLVI, Issue 3

Tulsa, Oklahoma

September 2004

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ASHRAE TIME!

President's Message

By: Steve Johnson



Steve Johnson
Chapter
President

Summer is almost gone and the new ASHRAE season is on the horizon. I hope everyone has taken time to get out and enjoy the unseasonably pleasant weather we have enjoyed this summer in Oklahoma. I expect many have honed their golf skills which will soon be put to the test. Our annual

golf tournament and barbeque is planned for September 9th at Clary Fields. Early indications are that there will be a good turnout but there is always room for more. Send those entries to Jerry Beardslee and/or Pam Dunlap. Let's keep our fingers crossed that the Oklahoma weather will treat us kindly. I have my request in with the Man upstairs.

Kudos' to Brian Hamilton and his Resource Promotion Committee. It appears that Research is 35% to 40 % ahead of last year with the response we received on hole and flag sponsors. Many thanks to the gener-

ous members and firms who have made this happen. It's always good to start off with a bang. Keep up the good work!!

Nancy Mack reports that the programs are planned for the year with only a few confirmations remaining. A complete program guide should be available by the October newsletter. Meeting dates have been confirmed with the Marriott Hotel and those dates can be found in this newsletter. Mark those calendars and plan to join us for what I believe will be an outstanding series of programs. There will be a refrigeration tour at the Blue Bell

(Continued on page 2)

UPCOMING EVENTS

- Annual Golf Tournament and Picnic September 9, 2004 Clary Fields
- 12 pm Putting Contest
- 1 pm Shotgun Start
- Approximately 6:15 pm Picnic, Clary Fields
- First Chapter Meeting October 14, 2004 Marriott Southern Hills

Notice:

Newsletter is now being transmitted electronically.

Contact Joel Karstetter @ 665-3974 if other media is required.

Annual Golf Tournament and Picnic

Thursday, September 9, 2004

Clary Fields Golf Club

See page 11 for details

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Creamery during the afternoon of October 6th. Additional information will be sent out via email during September.

Bill Hanlon and Paul Mannas have been working hard over the summer making improvements to our website and directory. If you have not previously, take a few moments to visit the site and get familiar with the contents. There is a wealth of information available along with links to Society website and the NEOK Directory. Bill would appreciate continuing participation in the Directory information database. With your password, you can update your own personal or business information. Contact Bill for more information. The website address is: www.ashrae-neok.org.

See you September 9th at Clary Fields.

Steve Johnson can be reached at 270-1414 or johnson.s@mcintoshservices.com

Chapter Technology Transfer

By: Nancy Mack

I'm pleased to report that the Programs schedule for this year is already full. There are a wide range of interesting and educational topics that will be presented. The full schedule is listed below, but check out these highlights: We will welcome Distinguished Lecturer Bill Coad at our October meet-

ing. December is sure to be a hot ticket as we will meet jointly with several other industry organizations and hear a panel discussion on Construction HVAC. In January, we will welcome ASHRAE Society President Ron Vallort at a special joint-meeting with the Oklahoma City Chapter. Bring your significant other to the Research Auction in February and bid on some big ticket items. We will tour a local facility in April before heading to CRC in San Antonio, TX.

December – *Ethics and Economics of Energy Conservation* by Bill Coad

November - *Proper VFD Fan Applications* by Brent Fullerton

December - *Construction HVAC - A panel discussion*

January - *Construction and IAQ Litigation*

February - YTBD

March - Student Project Presentations

April - Plant Tour

May - Surgical Room Air Distribution by Leon Klootra

Nancy Mack can be reached at 491-6600 or nmack@tulsacoxmail.com

Happiness is not an accident. Nor is it something you wish for. Happiness is something you design.

Jim Rohn

History

By: Mike Thompson

This month's article will spotlight "AAON, Inc.", a Golden Gavel Contributor.

Under the leadership of Norman A. Asbjornson, president and CEO since 1988, Tulsa based AAON, Inc. has earned a 12% market share in the \$1.4 billion rooftop air conditioning market.

In mid 1987, Tulsa's John Zink Company hired Norman Asbjornson to turn around its heating and air conditioning division, then about a \$17 million operation. John Zink sold the entire division to Lone Star Technology and three months later the new owners opted to shed the heating and air conditioning division. Mr. Asbjornson quickly raised \$8 million from banks and private investors to buy the Zink unit. In October 1988 AAON opened for business. In 1989, Mr. Asbjornson took the company public at 20 cents per share, by mid-2001, AAON stock consistently traded above \$20. In 2000 "Forbes" ranked the firm number 52 among its "200 Best Small Companies" and "Business Week" ranked the firm among its "100 Hot Growth Companies".

AAON has facilities in Tulsa, Oklahoma and Longview, Texas with approximately one million square feet of manufacturing and administrative space. AAON employs some

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1,100 full-time and part-time employs.

AAON product lines led to the production of three groups of rooftop systems ranging from 3 to 130 tons. To maintain leadership in its industry, AAON has developed a new line of heating and air conditioning equipment with larger units up to 230 tons. Other new products include air handlers and filtration components, condensing units and wall-hung systems. The wall units range from 1-1/2 to 6 tons capacity.

A special thanks is given to AAON and Mr. Norman Asbjornson for all of their contributions and hard work with our chapter of ASHRAE.

Remember to thank the contractors, manufacturers, engineers and the utility companies for their support and contributions to our chapter. If you have any suggestions for future articles, please contact me.

Mike Thompson can be reached at 270-1414 or thompson.m@mcintoshservices.com

Editor's Corner

By: Joel Karstetter

This month we are adding a new column to the newsletter "Everything you wanted to know about ASHRAE but were

afraid to ask". During our meetings and in the course of conducting chapter business we use many terms and acronyms and we assume that everyone knows what they mean. The column will be written by one of our distinguished past presidents and will provide information on ASHRAE and our chapter. The following is a list of some of the topics we will cover. If you have suggestions for topics of interest, please let me know. This month's column was written by Bob Allwein on the Golden Gavel. Thanks to Bob for an excellent article.

Golden Gavel
POE
CRC
CTT
Research Promotion
MBO

Joel Karstetter can be reached at 665-3974 or jkarstetter@abscompanies.com

Membership Promotion

By: Michael Base

As many of our members need to renew their memberships over the next month, I thought it would be a good time to review the delinquency process. Each member should receive their renewal bill by mail two months before their anniversary date. The first delinquency notice will be sent after a member is 3 months past due. At six months past-due, the member

receives their second delinquency notice and the monthly Journal/Insights magazine is discontinued. The third delinquency notice will be sent after a member is nine months past-due, and the ASHRAE Handbook will not be sent. At 11 months past-due, a final notice will be mailed. Finally, the member will be dropped from the system after 12 months of delinquency. Our local chapter also tries to contact the member several times during the delinquency to encourage renewal. After a member is dropped, they will need to fill out a new application to start their membership again. Please send in your payment when it is due to avoid this process.

Please welcome our new members Monte Harnar with Warren Professional Corporation and Michael Guillen with Process Equipment Company.

Please contact me for additional information or applications.

Michael Base can be reached at 836-0271 or lbce@swbell.net

Student Activities

By: Scott Pollard

School is back in session and the student chapters are getting ready for another year. The University of Tulsa will have Dr. Rybicki,

(Continued on page 4)

(Continued from page 3)

the Mechanical Engineering Department Chair, for their advisor this year, while Dr. Shirazi is on sabbatical. We are again expecting to have continued expansion and growth of our established chapters at the University of Tulsa and OSU-Okmulgee. We are still actively pursuing the chartering of a third chapter at OSU-Tulsa, but have hit a small snag with our previous contact leaving. We are looking forward to a great year with our student chapters.

Scott Pollard can be reached at 250-5590 or scott.pollard@omni-2.com

Resource Promotion

By: Brian Hamilton

Thanks to everyone who contributed to ASHRAE Research by sponsoring a hole and or a flag. We sold a total of 21 hole signs and 11 flags. Remember to sign up for the golf tourney if you have not already. This year we are lucky to have D.S. Herron Co. sponsor two \$10,000.00 hole in one contests. We will need volunteers to monitor these holes as golfers come through. If you're interested, please contact me. Be thinking of Auction items for the February meeting. Everyone had a good time last year and I would like to build on that. Good luck at the golf tourney, hope to see all of you there.

Brian Hamilton can be reached at (918) 664-9756 or bhamilton@2boonesales.com

Past President's Column

By: Bob Allwein

History of the Region VIII "Golden Gavel Award"

This will be the first of a number of articles that will preview ASHRAE Regional and Society Awards that have had an impact on our chapter. If you looked at our chapter banner you might have noticed six patches that have a VIII symbol on them. That is the Golden Gavel Award and there are six Past Presidents in our chapter that can claim the award for their time in office. The award has a rich history and I'd like to share that history with you thanks to the help of Presidential Member Bill Collins, the "Father of the Golden Gavel Award".

The ASHRAE Region VIII Golden Gavel Award is presented to the winning Region VIII chapter during the CRC Awards Luncheon. As the forerunner of the Presidential Award of Excellence (PAOE), the Golden Gavel has caused our entire Society to reach new heights of accomplishment and influence.

During the ASHRAE Winter Meeting in Columbus, OH in 1968, William J. Collins, Jr., of Oklahoma City, past Regional Chairman, George H. Meffert of Dallas and Jack W. Thompson, then Regional chairman of Dallas, had lengthy discussions about ways of stimulating chapter activities in Region VIII. From these discussions evolved the idea of the Golden Gavel Award, to be presented each year to the Region VIII chapter that excelled in chapter activities. Collins and Thompson formulated the award criteria, which have been revised as areas

of interest have been increased, and the first presentation was made to the Central Oklahoma Chapter in April, 1968 at the CRC meeting in Ft. Worth, Texas. The presentation was made to the chapter president, Louis E. Wickline, and consisted of a Golden Gavel lapel pin for the president, an emblematic patch for the Chapter Awards Banner, and a Golden Gavel for the chapter to use during the coming year. For the president's lapel pin, Mr. Collins had taken a Chapter Past President's diamond pin to a local jeweler and had them affix a miniature gavel of gold to the bottom of the pin. For the chapter gavel he had purchased a golden gavel on which was inscribed the ASHRAE insignia and Region VIII. This gavel is passed to the next winning chapter each year. The Golden Gavel lapel pin given to the winning president each year is a coveted reward for their efforts as the chapter's leader.

The Golden Gavel Committee that judges the winner each year is appointed by the Regional Chairman at the beginning of the fiscal year and consists of a Presidential Member, two Region VIII past chairmen, and two Region VIII past chapter presidents. No two committee members may be from the same chapter. The committee meets during the Region VIII CRC in the spring, the day before the Awards Luncheon. The results of the judges' decision is kept secret until the award is made at the Awards Luncheon by the chair of the committee. The award is based on a number of areas including percent of chapter membership attendance as related to distance traveled; chapter report

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to the CRC; membership activity; resource promotion activity; percent attendance at chapter meetings; TCC committee activities; chapter roster quality and content; newsletter quality; chapter projects; regional vice chairmen's reports; and the director and regional chairman's report.

After the first Golden Gavel award was presented at the Fort Worth CRC, the competitive spirit of all the Region VIII chapters gained momentum rapidly and gains in chapter activities set new Society Records.

For the first twenty years the Golden Gavel Award was dominated by the Central Oklahoma and Fort Worth Chapters with nine and five awards respectively. In 1986 the Northeastern Oklahoma Chapter received their first Golden Gavel Award under the presidency of Chick L. Morris. That year two awards were given. One award went to the NEO chapter and the other to the Austin Chapter. Once the NEO Chapter got their first award it took another nine years to get their second award when Ron Huntley brought the Golden Gavel back to Tulsa. Starting in 1997 our chapter received the award four years in a row when Mark Hixon, Gene Redford, Keith Browne and Bill Hanlon were winners. Two other NEO Chapter Past-Presidents have received the award, Bob Allwein in 1979 and Mike Beda in 1982 while they were president of the Central Oklahoma Chapter

The Golden Gavel Award has truly brought excellence to our chapter and Region VIII. Next month don't miss the article on how the Golden

Gavel Award spawned the infamous "Presidential Award of Excellence" (PAOE) Society award.

Prepared by; Bob Allwein, CRC Delegate

Bob Allwein can be reached at
622-1500or
Wutzpneu@aol.com

Directory

By: Bill Hanlon

Welcome to a new ASHRAE year. There is a new password in place for the 2004 chapter directory. If you need assistance accessing the member section, just click on the prompt below the Membership Roster heading and I will e-mail the new password to you.

Also, if you forgot to update your member listing when you renewed your membership (you did renew, didn't you?), I can enter the new information into the directory database during the monthly download from Society. This might also be a good time to review your company listing to make sure the employee, product and service information is current. A separate password is needed to edit the business listings.

Looking forward to a great chapter year, starting with the golf tournament and picnic. I hope to see you there.

Bill Hanlon can be reached at
622-1500or
wutzpneu@aol.com

August BOG Minutes

By: Dave Lam

The Board of Governors meeting was held on July 15, 2004 in the offices of Powers of Oklahoma. President Steve Johnson called the meeting to order at 4:30 pm.

Minutes: Last month's meeting minutes were e-mailed prior to the BOG meeting. Corrections were collected and will be used to amend the minutes. Joel Karstetter made the motion to accept the amended minutes and Paul Roberts seconded the motion. The motion was approved.

Treasurer: Pam Dunlap reviewed the budget for the upcoming year. She based the budget on the average of the last four years. Members who have not reserved a meal with the attendance committee will be charged \$25 for their meals this coming year. Also, local dues have gone up to \$35.

Newsletter: Joel Karstetter asked for articles to be turned in by September 1. He would like the past-presidents to write an article on some ASHRAE related item.

Resource Promotion: Brian Hamilton received 19 hole sponsorships and 11 flag sponsorships to date.

Membership: Mike Base passed out new membership applications. There is a new membership category. It is an affiliate membership. This is available only for those under the age of 30 and is limited to

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three years. The affiliate member does not receive a handbook. The delinquent list is at 66, this is less than last year. Delinquencies will be charged \$150 for their society dues.

CTT: Nancy Mack is trying to get more student booster tickets this year. This year a member may purchase a meal or two that will go towards student attendance. Previously, we were dependent on people or companies purchasing an entire student ticket for our student members. A good response should persuade more students to attend meetings. At student night this year we will plan for the Student Activities chairman to recognize and thank those who have bought meals for the students and promote further purchases. David King is going to take over the Technical Session programs this year.

Refrigeration: C h u c k Mayfield is planning on setting up two plant tours this year, one in the fall and one in the spring. Blue Bell will be our first tour. This will take place on October 6th (Wednesday); tentatively at 1pm.

Directory: Bill Hanlon is in the process of transferring some material from the website to the directory.

Publicity: Mike Gulizio plans on sending a bulletin to the Tulsa World the Tuesday before our Thursday night meetings.

Website: Paul Mannas is in the process of moving the web site from Earthlink. When this is complete, he will have to work with Bill Hanlon to integrate the directory into the website so that it is not longer on the Pneutech website. The calendar of events is posted on the left side of the page.

Honors and Awards: Gene Redford has a couple of lifetime membership awards that will be presented to Hal Kallenberger and Bill Cantrell.

CRC Action: Bob Allwein reports that the website for entering PAOE points is not up yet. This year, each chair will be responsible for entering their own points. Bob will monitor the website to make sure it is being done correctly.

Special Events: Jerry Beardslee asked where the traveling trophy for the golf tournament was located. David King from Sparks reported that it was at Sparks. Jerry reported that Mary Bowers will be responsible for check-in this year. Ron McGill and Mary are gathering door prizes, Gene Redford will supply drinks, and John Evans has lined up the caterer. All is a "go" for the golf tournament.

Old Business:

Steve Johnson has only received one MBO to date, he would like to have them all in hand by the next BOG meeting.

New Business: S t e v e Johnson would like to have a

committee established by February to investigate meeting sites for next year. He expects to receive the contract for this year from the hotel by the next BOG meeting...We agreed to help ASPE network entries for their golf tournament to be held October 1st, Jim Waldroop will send out a mass e-mail in that effort. We need to get our chapter data updated at the Tulsa County Library.

Dave Lam can be reached at 250-5590 or david.lam@omni-2.com

ASHRAE News

By: Joel Karstetter

Professional Development Seminars to be Presented Online

ATLANTA—ASHRAE will offer its fall professional development seminars online, instead of in specific cities as in years past. Mark Hydeman, P.E., Member ASHRAE, chair of ASHRAE's Professional Development Committee, said the online format allows for increased availability and greater convenience while reducing overhead. The online format also allows participants to review recorded versions of the seminars. The seminar, *Humidity Control I and II*, will be held from 1 to 4 p.m. Oct. 4-5. *Optimizing the Design and Control of Chilled Water Plants* will be held from 1 to 4 p.m. Nov. 3-4.

CRAFTING PROFESSIONAL JUDGEMENT

The Steering Committee, in conjunction with the University of Tulsa and Brigham Young University, kindly requests that you please take note of an upcoming event which should be extremely engaging, informative, and breaking much-needed ground in the realm of addressing mold contamination in buildings. The Symposium is titled "Advanced Perspectives in Mold Prevention and Control: Crafting Professional Judgment for Assessment and Remediation Approaches to Varying Occupancies/Building Types", and is being held November 7-9, 2004 in Las Vegas. [THE WEBSITE FOR THE EVENT](http://www.cese.utulsa.edu/moldsymposium) includes all details, speakers, etc. Please go to: www.cese.utulsa.edu/moldsymposium

Sponsored by The University of Tulsa and Brigham Young University, and Co-sponsored by ISIAQ and AIHA, the program will focus on

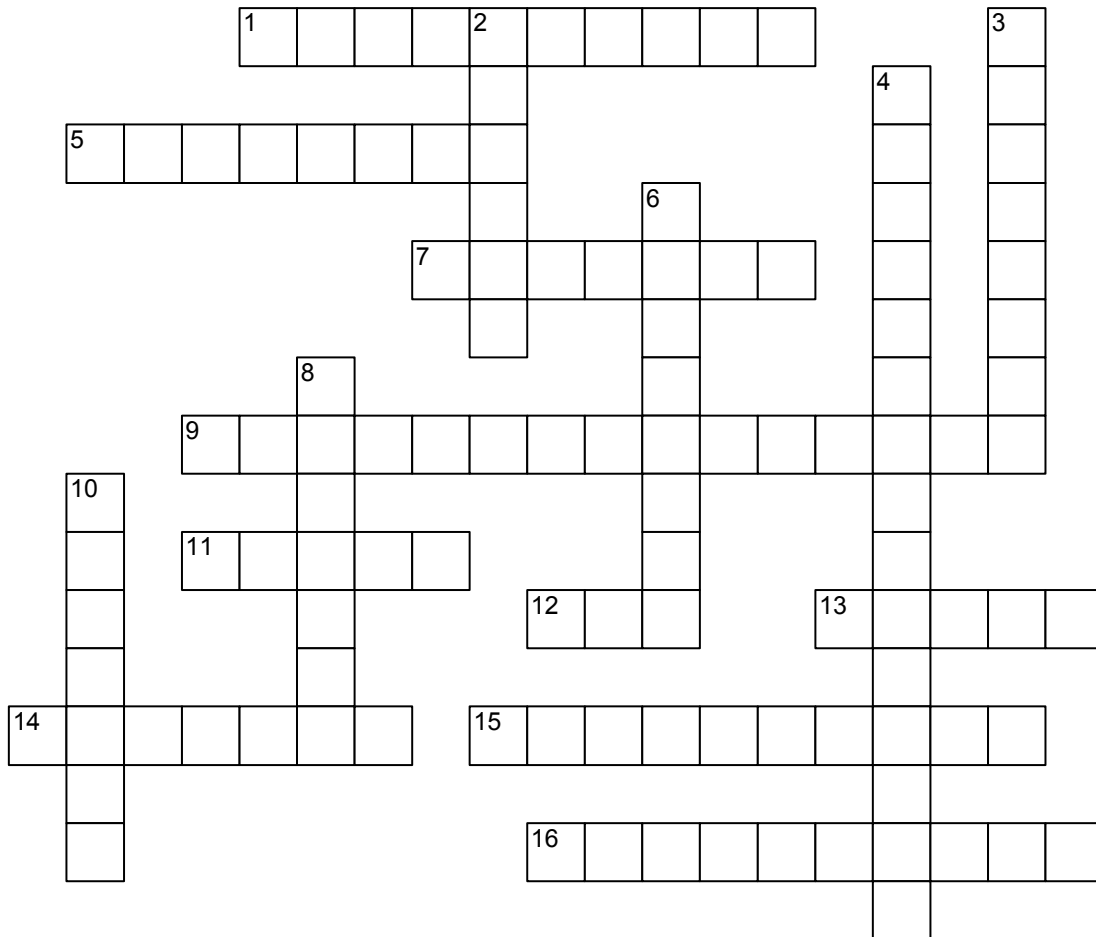
CRAFTING PROFESSIONAL JUDGEMENT: The participatory collaboration of practice with the leadership of science. The Symposium is chaired by: Eugene C. Cole, DrPH, Brigham Young University and Richard Shaughnessy, PhD, The University of Tulsa. The following experts make up the symposium's Steering Committee: Harriet Ammann, PhD, DABT; Michael Hodgson, MD; John Martyny, PhD, CIH; J. David Miller, PhD; Phil Morey, PhD, CIH; Aino Nevlainen, PhD; Brad Prezant, CIH; Tiina Reponen, PhD; Steve Reynolds, PhD, CIH; Donald Weekes, CIH.

UPCOMING EVENTS

HYDRONIC SYSTEMS SEMINAR

- WHO:** Bell & Gossett's Little Red Schoolhouse / Boone & Boone Sales Co. / ASHRAE / ASPE & Hospital Operating Engineers- Tulsa are offering this Seminar!
- SPEAKER:** Roy Ahlgren, Director, Little Red Schoolhouse!
- WHAT:** Come get your Continuing Education Units; Operating License Renewal Hours and good to know knowledge, 8 hours, 2 duplicate seminars-one Thursday and one Friday, Send half your technical people to one day & the other half to the other day. BBQ lunch is included!
- WHY:** We need to further our technical education and maintain certification in our professions!
- WHERE:** OSU@Tulsa Auditorium, 700 N. Greenwood Ave., Tulsa, OK (P-918-594-8252)!
- WHEN:** 8 to 5 PM, September 23 & 24, 2004
- CO\$T:** \$ 60.00 / attendee and \$ 15.00 more if you want the CD of the presentation. Payable in advance (PLEASE) to Boone & Boone Sales Co. and \$ 70.00 / attendee @ the door with cash, checks & credit cards!
- DONATION:** A portion of your fee goes to ASHRAE, ASPE & Hospital Operating Engineers as research \$!
- BRING:** Hydronic type questions for Roy's comments. Prizes will be awarded for the best questions!
- WEBSITE:** Check us out @ <http://schoolhouse.ittind.com>, Let Dave Rumfeldt know if you wish to attend other courses!
- COMMENTS:** Please send to: drumfeldt@2boonesales.com
Moderator,
David W. Rumfeldt
Boone & Boone Sales Co., Inc.-Tulsa, OK
drumfeldt@2boonesales.com
Phone-918-664-9756
Fax- 918-664-1675

Oil Capital Air Puzzle



www.CrosswordWeaver.com

Across

- 1 _____ heat pump system
 5 Baseboard _____
 7 Father of the Golden Gavel Award
 9 ASHRAE Professional Development Seminar
 11 The Systems and Equipment book is _____
 12 A color and a Palmer
 13 Three deck or _____ multizone
 14 Type of convection
 15 Theme of Oct meeting
 16 President of AAON

Down

- 2 Hole in one sponsor
 3 Refrigeration tour site
 4 A name for R-23
 6 Distinguished lecturer for the Oct meeting
 8 Type of refrigerant
 10 Ron Vallort, Society President to attend this meeting



ASHRAE Region VIII

Dinner – February 7, 2005

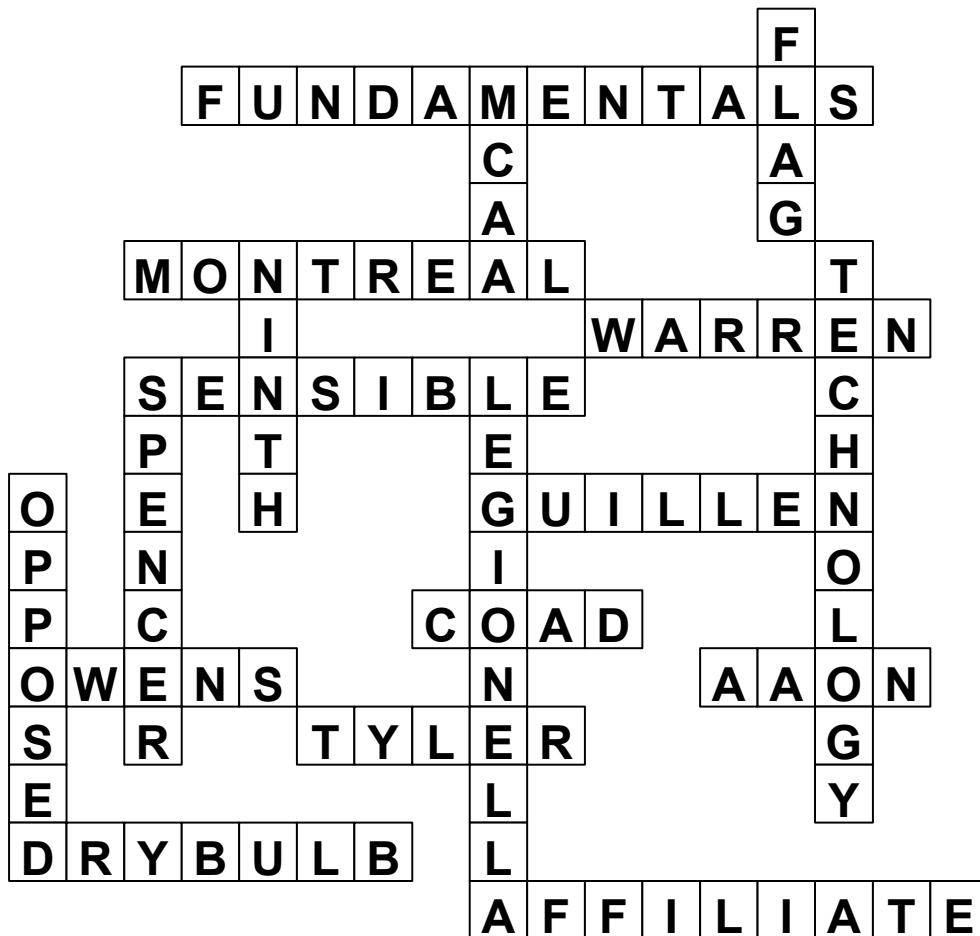
Monday Night

6:00 PM to 8:30 PM

Please RSVP to
 Art Giesler
 Assistant Regional Chair
 palatusa@aol.com
 (817) 589-9372
 Fax (817) 284-1531

Reservations are required

Oil Capital Air Puzzle Solution August



Save
\$20.00

Complete the form below and save \$20.00
over the cost of meals purchased individually.

NEOK ASHRAE BOOSTER TICKET APPLICATION

Individual Booster Ticket: (Name) _____ \$140.00

Individual Booster Ticket: (Name) _____ \$140.00

Corporate Booster Ticket: Qty. _____ @ \$140.00 \$ _____

Student Booster Ticket: Qty. _____ @ \$140.00 * \$ _____

Member Promotion: Qty. _____ @ \$140.00 * \$ _____

Booster Ticket:

Total Amount Paid: \$ _____

Company Name: _____ Contact Person: _____

Address: _____

Phone: _____ Fax: _____

Mail Checks to: Pam Dunlap
C/O Matrix A/E/P
624 S Boston
Tulsa, Ok 74119

Make checks payable to:
NEOK ASHRAE

* Tax deductible donation for the benefit of the Chapter

ASHRAE, 2004 GOLF & PICNIC

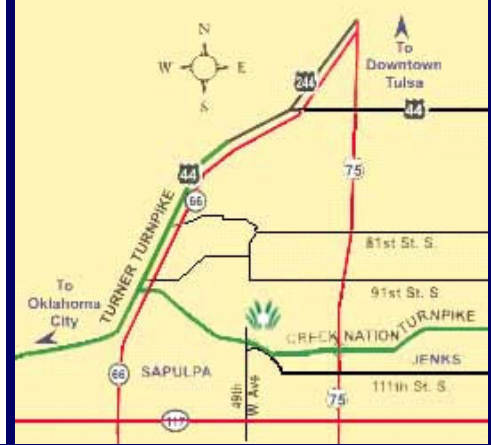
SEPTEMBER 9th
Clary Fields



SCHEDULE	
11:00 am	Tournament check in opens
12:00 pm	Putting contest
1:00 pm	Shotgun start
Approx 6:15 pm	BBQ and Picnic (following tournament Play)

Format: Four player scramble with individuals making up their own teams. Single entrants will be accepted and assigned to a team by the tournament organizers. Please turn in the average score of each player so that team handicaps can be established for the net prizes. The tournament is limited to approximately 120 golfers, so please mail your entry early.

Sign up Today! The tournament is \$65.00 (includes green fees, range balls, 1/2 cart rental, picnic and prizes) If you do not wish to play golf, tickets can be purchased at the picnic for \$15.00 per person for the famous BBQ and social hour. Entry deadline is September 6th (entries received after 9/6/04 are considered late. Contact Jerry Beardslee for a possible opening.



Mail this entry form to: Matrix Architects Engineers Planners, Inc.
 Attention: Jerry Beardslee
 624 South Boston
 Tulsa, OK 74119-1225

Sign up form (please cut off and mail with your check)

Phone 587-4141
 Fax 587-8008
 Email: jkbeardslee@matrixae.com

Make Checks Payable to:
N.E.O. ASHRAE

Name (Please Print)	Phone Number	Ave Score	Activity	Amount
			Golf & Picnic \$65.00	
			Picnic Only \$15.00	
			Golf & Picnic \$65.00	
			Picnic Only \$15.00	
			Golf & Picnic \$65.00	
			Picnic Only \$15.00	
			Golf & Picnic \$65.00	
			Picnic Only \$15.00	

2004/2005 Programs

Date	Technical Session	Speaker	Main Program	Speaker	Theme and Special Guests
9-Sep-04	Golf Tournament at Clary Fields Golf Course				
14-Oct-04	Bacnet Testing Laboratories	Randy Heidrich	Ethics and the Economics of Energy Conservation	William Coad, P.E. Coad Engineering Enterprises	Membership Night; Hugh McMillan, Region VIII DRC
11-Nov-04	Fan Applications	Jack Peters Cook Fans	Proper VFD Applications	Brent Fullerton Cook Fans	Research Promotion Night
9-Dec-04	NONE - Lunch Meeting		Construction HVAC Panel Discussion	Panel of Industry Representatives	Joint meeting with BOMA, MCA, ABC
13-Jan-05	Low Temp Refrigeration	Jack Tumility	IAQ Litigation	Edward Smith, Esquire	Refrigeration Night
28-Jan-05	NONE		Special Presidential Visit, in OKC	Ron Vallort, ASHRAE Society President	
10-Feb-05	Research Auction		YTBD		Research and Spouses Night
10-Mar-05	Dehumidification	Dave Knebel	Student Presentations	College Students	Student Activities; Past Presidents;
7-Apr-05	NONE		Plant Tour (Bama or Blue Bell?)		Tour
12-May-05	Radiant Heating	Missouri Heat Representative	Surgical Air Distribution	Leon Kloostra, Titus	Healthcare Facilities

The Oil Capital Air

Northeastern Oklahoma Chapter
 American Society of Heating Refrigerating and Air-
 Conditioning Engineers, Inc.
 P.O. Box 54069
 Tulsa, OK 74155-0069

Visit our website at
www.ashrae-neok.org

Chapter Volunteers

Officers:

		Voice	Fax
President	Steve Johnson	270-1414	270-1414
President-Elect	Joel Karstetter	665-3974	665-4219
Secretary	David Lam	747-5328	459-0997
Treasurer	Pam Dunlap	587-4747	587-8008

Board of Governors

Mary Bowers		665-6600	627-7004
Bill Hanlon		622-1500	627-7004
Ron Huntley		663-7883	663-7961
Nancy Mack		491-6600	491-6985
Steve Uerling		836-0271	836-0275

Committee Chairs

CRC Delegate	Bob Allwein	831-8383	831-8320
CRC Alternate	Cary Pestel	664-9756	664-1675

Committee Chairs (cont.)

Attendance	Jim Waldroop	250-5590	459-0997
Directory	Bill Hanlon	622-1500	627-7004
Historian	Mike Thompson	270-1414	270-1444
Honors & Awards	Gene L. Redford	622-0600	622-0618
Invocations	Paul Roberts	665-6600	627-7004
Membership	Michael Base	836-0271	836-0275
Newsletter	Joel Karstetter	665-3974	665-4219
Programs (Main)	Nancy Mack	877-6000	877-4000
Programs (Tech)	Jeff Ferguson	317-3151	254-4005
Publicity	Mike Gulizio	455-1712	
Reception	Chad Leland	628-1500	
Refrigeration	Chuck Mayfield	624-1005	624-1006
Resource Promotion	Brian Hamilton	664-9756	664-1675
Special Events	Jerry Beardslee	587-4747	587-8008
Student Activities	Scott Pollard	250-5590	459-0997
Technology Transfer	Nancy Mack	491-6600	491-6985
TEGA	David King	582-0229	599-0665
Webmaster	Paul Mannas	664-0312	665-3351

Calendar of Events

Important Dates

June 17, 2004	Board of Governors
July 15, 2004.....	Board of Governors
August 19, 2004 ..	Board of Governors
September 9, 2004	Chapter/Golf Tourney
September 16, 2004	Board of Governors
October 14, 2004 ..	Chapter
October 14, 2004 ..	Board of Governors
November 11, 2004	Chapter
November 18, 2004	Board of Governors
December 9, 2004	Chapter
December 16, 2004	Board of Governors
January 13, 2005 ..	Chapter
January 20, 2005 ..	Board of Governors
February 5-9, 2005	ASHRAE Winter Meeting
February 10, 2005	Chapter
February 17, 2005	Board of Governors
March 10, 2005	Chapter
March 17, 2005	Board of Governors
April 7, 2005.....	Chapter
April 14-16, 2005...	CRC
April 21, 2005.....	Board of Governors
May 12, 2005	Chapter
May 19, 2005	Board of Governors
June 26-30, 2005 ..	Annual Meeting

Meeting

Location

Powers of Oklahoma
Powers of Oklahoma
Powers of Oklahoma
Clary Fields Golf Club
Powers of Oklahoma
Marriott Southern Hills
Marriott Southern Hills
Marriott Southern Hills
Powers of Oklahoma
Marriott Southern Hills
Powers of Oklahoma
Marriott Southern Hills
Powers of Oklahoma
Orlando, FL
Marriott Southern Hills
Powers of Oklahoma
Marriott Southern Hills
Powers of Oklahoma
Plant Tour
San Antonio, TX
Powers of Oklahoma
Marriott Southern Hills
Powers of Oklahoma
Nashville, TN